

Sanjana Gautam

INFORMATICS DOCTORAL STUDENT

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Summary

I am currently pursuing PhD in Informatics at Pennsylvania State University. My advisor is Dr. Mary Beth Rosson. My primary research interest is to use learning analytics to design tools to enhance the pedagogical experience of online learners. I wish to further explore alternative modalities of information - specifically the insights that emerge from online user behavior. My desire to pursue doctoral studies is motivated by my aspirations to contribute to research concerning human behavioral dynamics through pervasive sensing, and in HCI for education.

Education

Pennsylvania State University

PHD IN INFORMATICS

University Park, PA.

2019 - Present

Shiv Nadar University

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Greater Noida, UP.

2015 - 2019

Experience

Pennsylvania State University

RESEARCH ASSISTANT

University Park, PA.

May 2020 - Present

- Working in the Supporting Civic Awareness Networks (SCAN) Lab at Penn State. My current project examines the emergency management in the time of pandemic (COVID-19). I am working on analyzing the role social media can play during crisis response.
- Conducting user testing on PIVOT (The tool works towards collection, filtering, identifying and ranking useful Twitter data)
- Assessed the spread of fear among Twitter users during the pandemic with the rise in fake news.
- Work closely with 911 centers and PSAPs to study the impact of the pandemic in their daily working
- Supporting the team in the development of PIVOT tool.
- Designed and developed the SCAN Lab website.

Pennsylvania State University

RESEARCH ASSISTANT

University Park, PA.

Aug 2019 - May 2020

- Currently working on a project that aims to build a platform to promote the formation of a community that connects students (currently 27,937) across the Commonwealth Campuses.
- Conducted preliminary interviews to understand the transition process of the 2+2 program students.
- Evaluating design implications that originate from such a geographically distributed community.

Pennsylvania State University

PLANT VILLAGE

University Park, PA.

Sept 2019 - Present

- PlantVillage empowers smallholder farmers and seeks to lift them out of poverty using cheap, affordable technology and democratizing the access to knowledge that can help them grow more food.
- Working towards automating the FAQ system using NLP.
- Compiled the data tracing the movement of the farmers app usage to assess the frequency and GeoTag of usage.

Goldman Sachs

TECHNOLOGY STRATS INTERN

Bengaluru, India

Jan 2019 - May 2019

- Worked as a part of the Corporate Cash Management team.
- Developed a web-based micro-services driven payment control portal to replace the legacy payment control platform.

Aujas Networks Pvt Ltd.

STUDENT INTERN

Bengaluru, India.

May 2017 - Jul 2017

- Responsible for the development of the C++ Registered Device Management Platform for Aadhar Unique Identification Authority of India (UIDAI).
- Integrated the following features a) portal to administer registered devices b) secure access control provisioning to the registered devices c) secure API integrations with AADHAR Registration.

Shiv Nadar University

RESEARCH ASSISTANT

Greater Noida, India.

Jan 2017 - Jan 2018

- Worked on the statistical analysis of educational YouTube channel.
- Used R and Python to extract user patterns from the dataset provided by YouTube to channel owners.

Honors & Awards

2020 **Robert Graham Endowment Graduate Fellow**, Pennsylvania State University
2019 **Robert Graham Endowment Graduate Fellow**, Pennsylvania State University
2015 **Undergraduate Scholar (Tuition Waiver)**, Shiv Nadar University
2013 **National Talent Search Scholar**, Government of India

State College
State College
Greater Noida
New Delhi

Professional Services

Graduate Student Organization College of Information Sciences and Technology

Pennsylvania State University

PRESIDENT

2020-Present

- Organizing talks, social events and hackathons.
- To facilitate social, as well as intellectual, peer-to-peer connections here at IST.

Paper Reviews

Pennsylvania State University

REVIEWER

2019-Present

- Reviewed papers for various conferences and journals including CHI, CSCW, ISCRAM and Elsevier.

HackData- The Data Science Hackathon

Shiv Nadar University

CO-ORGANIZER

Feb 2018

- Co-organized HackData in Shiv Nadar University, Greater Noida. Pan-India participation of > 200 students.

SNU ACM-W Chapter

Shiv Nadar University

CHAIR

Nov. 2017 - Nov. 2018

- (Association for Computing Machinery - Women) Organized tutorials, talks and workshops to promote the presence of women in technology, as part as the founding committee of the SNU ACM-W Chapter

Publications

- Saurabh, S., & **Gautam, S.** (2019). Modelling and statistical analysis of YouTube's educational videos: A channel Owner's perspective. *Computers Education*, 128, 145-158.
- **Gautam, S.**, & Rosson, M.B. (2020).. Exploring Feelings of Student Community across a Geographically Distributed University. *Proceedings of the ACM on Human-Computer Interaction*, 5(CSCW1), 1-16.
- Romera, G., **Gautam, S.** & Tapia, A. Understanding Twitter's behavior during the pandemic: Fake News and Fear, Poster at ISCRAM 2021